

09/943,037

=> file reg

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 10:45:36 ON 01 JUL 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2

DICTIONARY FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\943037.str

L1 STRUCTURE UPLOADED

=> id l1

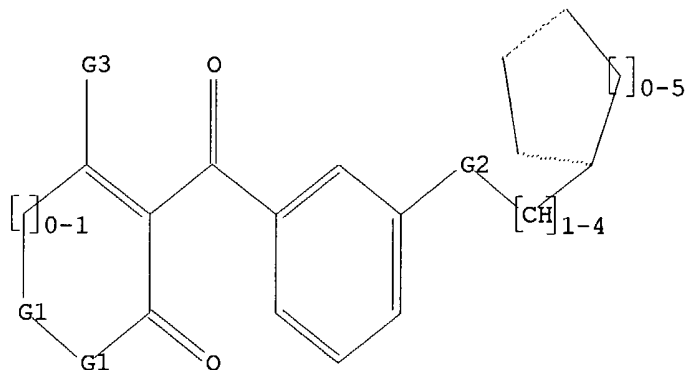
ID IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 C, O, S, N

G2 O, S, N

G3 O, S, CN, X

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Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full

FULL SEARCH INITIATED 10:46:18 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 66962 TO ITERATE

100.0% PROCESSED 66962 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.03

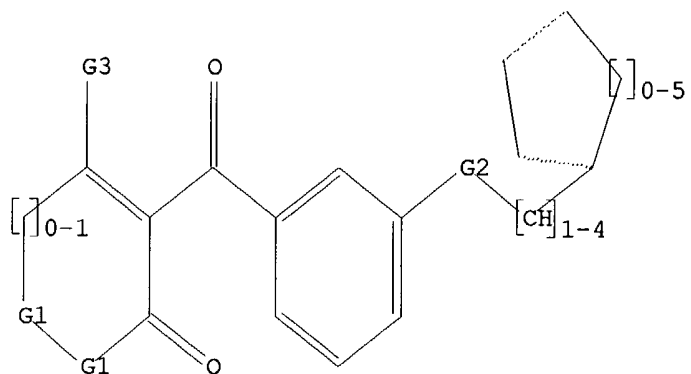
L2 0 SEA SSS FUL L1

=>

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 C,O,S,N

G2 O,S,N

G3 O,S,CN,X

Structure attributes must be viewed using STN Express query preparation.

09/943,037

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptaul2lrlr

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 11:04:32 ON 01 JUL 2004
FILE 'REGISTRY' ENTERED AT 11:04:32 ON 01 JUL 2004
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	166.76	166.97

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	166.76	166.97

FILE 'REGISTRY' ENTERED AT 11:04:45 ON 01 JUL 2004
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STRUCTURE FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2
DICTIONARY FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\943037a.str

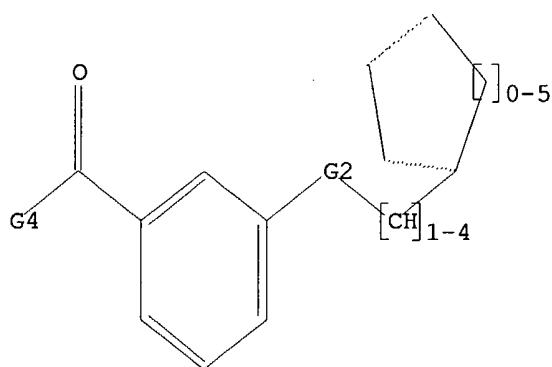
L3 STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS

L3 STR

09/943,037



G1 C,O,S,N
G2 O,S,N
G3 O,S,CN,X
G4 O,X

Structure attributes must be viewed using STN Express query preparation.

=> s l3 sss full
FULL SEARCH INITIATED 11:05:11 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 417821 TO ITERATE

95.7% PROCESSED 400000 ITERATIONS 4397 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.03

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 417821 TO 417821
PROJECTED ANSWERS: 4397 TO 4795

L4 4397 SEA SSS FUL L3

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	155.42	322.39

FILE 'CAPLUS' ENTERED AT 11:05:29 ON 01 JUL 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 1 Jul 2004 VOL 141 ISS 1
FILE LAST UPDATED: 30 Jun 2004 (20040630/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s 14

L5 1668 L4

=>

Uploading C:\Program Files\Stnexp\Queries\943037.str

L6 STRUCTURE UPLOADED

=> d 16

L6 HAS NO ANSWERS

L6 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s 6 sss full

L7 3430462 6

=> s 16 sss full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 11:11:37 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 66962 TO ITERATE

100.0% PROCESSED 66962 ITERATIONS 15 ANSWERS
SEARCH TIME: 00.00.03

L8 15 SEA SSS FUL L6

L9 1 L8

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.46

484.77

FILE 'CAPLUS' ENTERED AT 11:11:48 ON 01 JUL 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 1 Jul 2004 VOL 141 ISS 1
FILE LAST UPDATED: 30 Jun 2004 (20040630/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 19

L10 1 L8

=> d l10 ibib abs hitstr

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2002:171849 CAPLUS

DOCUMENT NUMBER: 136:216531

TITLE: Herbicidal benzoylcyclohexanedione derivatives

INVENTOR(S): Seitz, Thomas; Van Almsick, Andreas; Willms, Lothar;
Bieringer, Hermann; Auler, Thomas; Menne, Hubert

PATENT ASSIGNEE(S): Aventis CropScience GmbH, Germany

SOURCE: PCT Int. Appl., 76 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

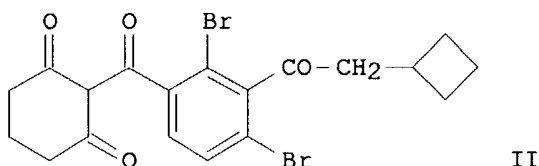
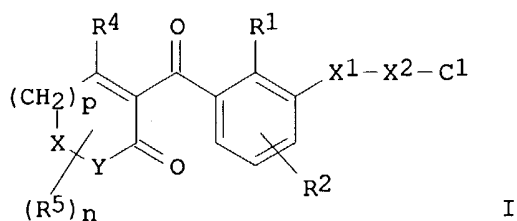
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018331	A1	20020307	WO 2001-EP9600	20010821
W:				
AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CO, CR, CU, CZ, DM, DZ, EC, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KP, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PH, PL, RO, RU, SG, SI, SK, TJ, TM, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW:				
GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10043074	A1	20020314	DE 2000-10043074	20000901
AU 2001082107	A5	20020313	AU 2001-82107	20010821
EP 1315697	A1	20030604	EP 2001-960682	20010821
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001013632	A	20031014	BR 2001-13632	20010821
JP 2004507522	T2	20040311	JP 2002-523449	20010821
US 2002165095	A1	20021107	US 2001-943037	20010830
BG 107580	A	20031031	BG 2003-107580	20030221
PRIORITY APPLN. INFO.:			DE 2000-10043074 A	20000901
			WO 2001-EP9600 W	20010821

OTHER SOURCE(S): MARPAT 136:216531

GI



AB Benzoylcyclohexanediones I [$X_1 = O, S(O)_n$, (un)substituted NH; $X_2 =$ (un)substituted alkylene, alkenylene, alkynylene; $Cl =$ (un)substituted mono-, bi- or tricycloalkyl, -oxacycloalkyl; $R_1, R_2 = H, SH, NO_2, CN$, halogen, SCN, R_3CO_2 , $R_3S(O)_nO$, $R_3S(O)_n$, R_3NSO_2 , R_3SO_2NH , R_3NHCO , substituted amino, 1,2,4-triazol-1-yl, R_3OCH_2 , $R_3S(O)_nCH_2$, R_3NHCH_2 , R_3NCH_2 , 1,2,4-triazol-1-ylmethyl, (un)substituted alkoxy, alkylthio, alkenyloxy, alkenylthio, alkynyloxy, alkynylthio, cycloalkoxy, cycloalkylthio; $R_3 =$ (un)substituted alkyl; $R_4 =$ (un)substituted OH, SH, $R_3S(O)_n$, CN, NCO, NCS, halogen; $R_5 =$ (un)substituted tetrahydropyranyl, tetrahydrothiopyranyl, alkyl, cycloalkyl, alkoxy, acyl, alkoxycarbonyl, alkylthio, Ph; $Y = O, S, NH, NR_3, CHR_3, CR_3$; $Z = O, S, SO, SO_2, NR_3, NH, CHR_3, CR_3$; $n = 0-2$; $p = 0, 1$; $w = 0-4$] were prepared for use as herbicides. Thus, 2,4,3- $Br_2(HO)C_6H_2CO_2Et$ was converted to the cyclobutylmethoxy derivative, hydrolyzed to the free acid, converted to the 3-oxo-1-cyclohexenyl ester, and rearranged to the ketone II. At 1 kg/ha II showed both pre- and post-emergence herbicidal activity.

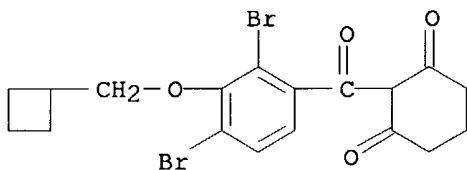
IT 402790-47-0P 402790-58-3P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of herbicidal benzoylcyclohexanedione derivs.)

RN 402790-47-0 CAPLUS

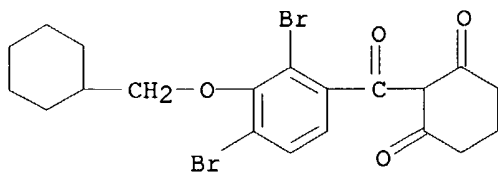
CN 1,3-Cyclohexanedione, 2-[2,4-dibromo-3-(cyclobutylmethoxy)benzoyl]- (9CI)
(CA INDEX NAME)



RN 402790-58-3 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2,4-dibromo-3-(cyclohexylmethoxy)benzoyl]- (9CI)
(CA INDEX NAME)

09/943,037

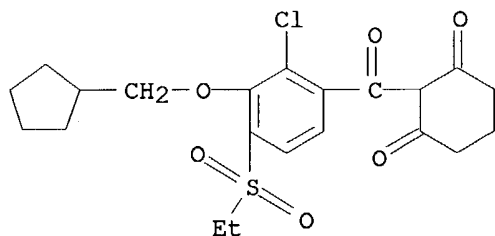


IT 402790-43-6P 402790-48-1P 402790-49-2P
402790-50-5P 402790-51-6P 402790-57-2P
402790-59-4P 402790-60-7P 402790-61-8P
402790-62-9P 402790-63-0P 402790-64-1P
402790-65-2P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of herbicidal benzoylcyclohexanedione derivs.)

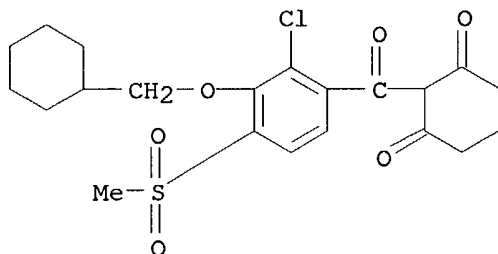
RN 402790-43-6 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2-chloro-3-(cyclopentylmethoxy)-4-(ethylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)



RN 402790-48-1 CAPLUS

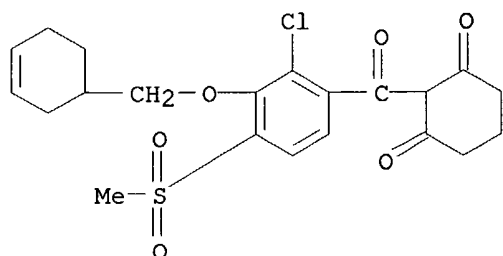
CN 1,3-Cyclohexanedione, 2-[2-chloro-3-(cyclohexylmethoxy)-4-(methylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)



RN 402790-49-2 CAPLUS

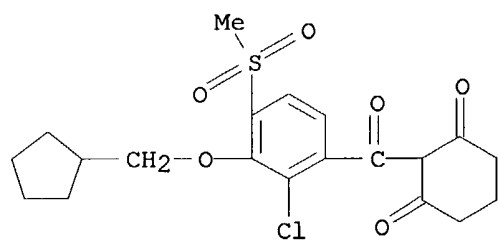
CN 1,3-Cyclohexanedione, 2-[2-chloro-3-(3-cyclohexen-1-ylmethoxy)-4-(methylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)

09/943,037



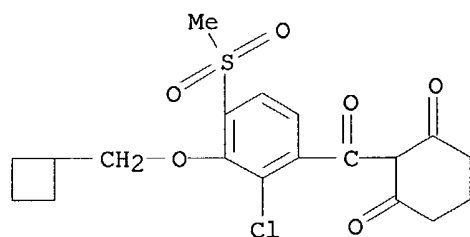
RN 402790-50-5 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2-chloro-3-(cyclopentylmethoxy)-4-(methylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)



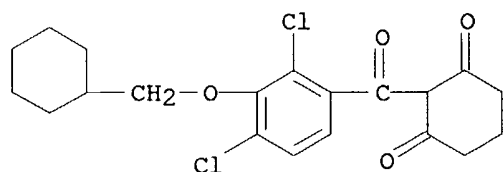
RN 402790-51-6 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2-chloro-3-(cyclobutylmethoxy)-4-(methylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)



RN 402790-57-2 CAPLUS

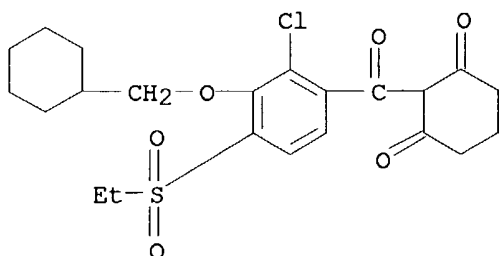
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RN 402790-59-4 CAPLUS

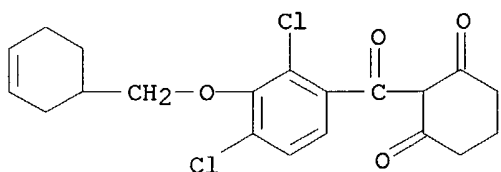
CN 1,3-Cyclohexanedione, 2-[2-chloro-3-(cyclohexylmethoxy)-4-(ethylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)

09/943,037



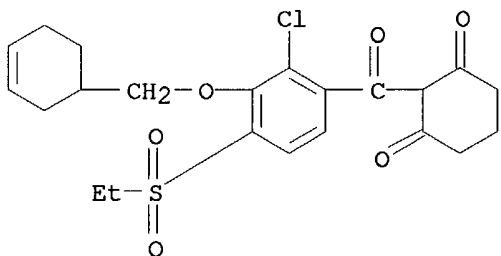
RN 402790-60-7 CAPLUS

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(9CI) (CA INDEX NAME)



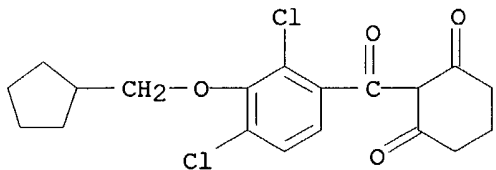
RN 402790-61-8 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2-chloro-3-(3-cyclohexen-1-ylmethoxy)-4-
(ethylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)



RN 402790-62-9 CAPLUS

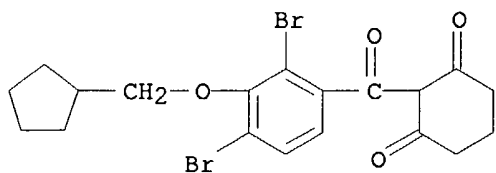
CN 1,3-Cyclohexanedione, 2-[2,4-dichloro-3-(cyclopentylmethoxy)benzoyl]-
(9CI) (CA INDEX NAME)



RN 402790-63-0 CAPLUS

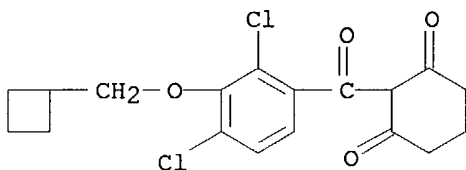
CN 1,3-Cyclohexanedione, 2-[2,4-dibromo-3-(cyclopentylmethoxy)benzoyl]- (9CI)
(CA INDEX NAME)

09/943,037



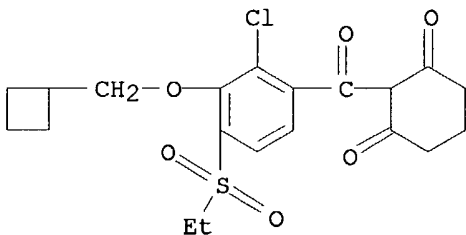
RN 402790-64-1 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2,4-dichloro-3-(cyclobutylmethoxy)benzoyl]- (9CI)
(CA INDEX NAME)



RN 402790-65-2 CAPLUS

CN 1,3-Cyclohexanedione, 2-[2-chloro-3-(cyclobutylmethoxy)-4-(ethylsulfonyl)benzoyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

11

THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT